

TABLE OF THE ISOTOPES (Continued)

| Gamma-ray intensity | Isotope | A | Z | % Natural abundance | Atomic mass | Half-life | Decay mode | Decay energy (MeV) | Particle energy (MeV) | Particle intensity | Thermal neutron cross section | Spin (h/2 π) | μ Nucl. mag. moment | Gamma-ray energy (MeV) | Gamma-ray intensity |
|---------------------|-------------------|-----|----|---------------------|-------------|-----------|------------------|--------------------|-----------------------|--------------------|-------------------------------|-------------------|-------------------------|----------------------------|---------------------|
| 2% | ^{1120}m | 119 | 53 | | | | E.C.(46%) | | | | | | | Te k x-ray | |
| 20% | | 119 | 53 | | | | | | | | | | | 0.2575 ± 0.0001 | 90% |
| 12% | | 119 | 53 | | | | | | | | | | | 0.3206 ± 0.0001 | 2% |
| 6% | | 119 | 53 | | | | | | | | | | | 0.5570 ± 0.0002 | 2% |
| 2% | | 119 | 53 | | | | | | | | | | | 0.6356 ± 0.0001 | 3% |
| 1% | | 119 | 53 | | | | | | | | | | | 0.7062 ± 0.0002 | 1.3% |
| 25% | | 119 | 53 | | | | | | | | | | | 1.0034 ± 0.0002 | 0.5% |
| 5% | | 120 | 53 | | | 53 m. | $\beta + (80\%)$ | | | | | | | ann. rad. | |
| 17% | | 120 | 53 | | | | E.C.(20%) | | | | | | | Te k x-ray | |
| 1% | | 120 | 53 | | | | | | | | | | | 0.4257 ± 0.0005 | 3% |
| 1% | | 120 | 53 | | | | | | | | | | | 0.5604 ± 0.0003 | 100% |
| 2% | | 120 | 53 | | | | | | | | | | | 0.6011 ± 0.0003 | 8% |
| 2% | | 120 | 53 | | | | | | | | | | | 0.6147 ± 0.0003 | 67% |
| 17% | | 120 | 53 | | | | | | | | | | | 0.6545 ± 0.0005 | 2% |
| | | 120 | 53 | | | | | | | | | | | 0.7039 ± 0.0005 | 2% |
| | | 120 | 53 | | | | | | | | | | | 0.7632 ± 0.0004 | 3% |
| | | 120 | 53 | | | | | | | | | | | 0.8818 ± 0.0005 | 2% |
| | | 120 | 53 | | | | | | | | | | | 0.9213 ± 0.0004 | 4% |
| | | 120 | 53 | | | | | | | | | | | 1.0315 ± 0.0006 | 1% |
| | | 120 | 53 | | | | | | | | | | | 1.0399 ± 0.0005 | 6% |
| | | 120 | 53 | | | | | | | | | | | 1.0592 ± 0.0005 | 5% |
| | | 120 | 53 | | | | | | | | | | | 1.1586 ± 0.0006 | 3% |
| | | 120 | 53 | | | | | | | | | | | 1.1973 ± 0.0006 | 2% |
| 6 | | 120 | 53 | | | | | | | | | | | 1.2613 ± 0.0007 | 2% |
| 6 | | 120 | 53 | | | | | | | | | | | 1.3346 ± 0.0007 | 4% |
| 6 | | 120 | 53 | | | | | | | | | | | 1.3459 ± 0.0004 | 19% |
| 6 | | 120 | 53 | | | | | | | | | | | 1.3635 ± 0.0007 | 4% |
| 6 | | 120 | 53 | | | | | | | | | | | 1.4021 ± 0.0007 | 4% |
| | | 120 | 53 | | | | | | | | | | | 1.4050 ± 0.0005 | 9% |
| | | 120 | 53 | | | | | | | | | | | 1.7614 ± 0.001 | 4% |
| 02 32 + | | 120 | 53 | | | | | | | | | | | 1.7758 ± 0.001 | 5% |
| 02 14 | | 120 | 53 | | | | | | | | | | | 1.8083 ± 0.001 | 4% |
| 02 7 | | 120 | 53 | | | | | | | | | | | 2.4032 ± 0.001 | 7% |
| 02 33 | | 120 | 53 | | | | | | | | | | | 2.4628 ± 0.0015 | 4% |
| 02 43 | | 120 | 53 | | | | | | | | | | | 2.6025 ± 0.002 | 3% |
| 02 8 | | 120 | 53 | | | | | | | | | | | 2.8110 ± 0.0015 | 4% |
| 02 100 | | 120 | 53 | | | | | | | | | | | 2.8643 ± 0.002 | 2% |
| 05 7 | | 120 | 53 | | | | | | | | | | | 2.9329 ± 0.0015 | 4% |
| 02 36 | | 120 | 53 | | | | | | | | | | | 3.1051 ± 0.0015 | 2% |
| 05 6 | 120 | 120 | 53 | | 119.909840 | 1.35 h. | $\beta + (81\%)$ | 5.4 | | | | 2- | | ann. rad. | |
| 02 74 | | 120 | 53 | | | | E.C.(19%) | | | | | | | Tek x-ray | 8% |
| 02 13 | | 120 | 53 | | | | | | | | | | | 0.5427 ± 0.0003 | 1% |
| 05 3 | | 120 | 53 | | | | | | | | | | | 0.5604 ± 0.0003 | 73% |
| 05 8 | | 120 | 53 | | | | | | | | | | | 0.6011 ± 0.0003 | 6% |
| 05 3 | | 120 | 53 | | | | | | | | | | | 0.6411 ± 0.0003 | 9% |
| 05 8 | | 120 | 53 | | | | | | | | | | | 1.2016 ± 0.0005 | 2% |
| 02 12 | | 120 | 53 | | | | | | | | | | | 1.5230 ± 0.0004 | 11% |
| 05 8 | | 120 | 53 | | | | | | | | | | | 1.5347 ± 0.0005 | 2% |
| 05 10 | | 120 | 53 | | | | | | | | | | | 2.1880 ± 0.001 | 1.4% |
| 03 8 | | 120 | 53 | | | | | | | | | | | 2.4548 ± 0.0005 | 2% |
| 05 9 | | 120 | 53 | | | | | | | | | | | 2.4918 ± 0.001 | 1% |
| 03 11 | | 120 | 53 | | | | | | | | | | | 2.5644 ± 0.001 | 2% |
| 06 | | 120 | 53 | | | | | | | | | | | 2.9329 ± 0.0015 | 0.7% |
| 06 | | 120 | 53 | | | | | | | | | | | (0.43 - 3.1) | |
| | 121 | 121 | 53 | | 120.907394 | 2.12 h. | $\beta + (13\%)$ | 2.28 | 1.2 | | | 5/2 + | | ann. rad. | |
| | | 121 | 53 | | | | E.C.(87%) | | | | | | | Te k x-ray | 37% |
| | | 121 | 53 | | | | | | | | | | | 0.2122 ± 0.0001 | 85% |
| | | 121 | 53 | | | | | | | | | | | 0.5321 ± 0.0001 | 5.4% |
| | | 121 | 53 | | | | | | | | | | | 0.5988 ± 0.0001 | 1.4% |
| | 122 | 122 | 53 | | 121.907595 | 3.6 m. | $\beta +$ | 4.23 | 3.1 | | | 1 + | | (0.14 - 1.1)weak ann. rad. | |
| | | 122 | 53 | | | | E.C. | | | | | | | Te k x-ray | 10% |
| | | 122 | 53 | | | | | | | | | | | 0.5641 ± 0.0001 | 18% |
| | | 122 | 53 | | | | | | | | | | | 0.6928 ± 0.0001 | 1.3% |
| | | 122 | 53 | | | | | | | | | | | 0.7933 ± 0.0001 | 1.3% |
| | 123 | 123 | 53 | | 122.905594 | 13.1 h. | E.C. | 1.23 | | | | 5/2 + | | 1.7469 ± 0.0001 | 0.33% |
| | | 123 | 53 | | | | | | | | | | | 2.1923 ± 0.0001 | 0.26% |
| | | 123 | 53 | | | | | | | | | | | Te k x-ray | 46% |
| | | 123 | 53 | | | | | | | | | | | 0.1590 ± 0.0001 | 83% |
| | | 123 | 53 | | | | | | | | | | | 0.4400 ± 0.0001 | 0.4% |
| | 124 | 124 | 53 | | 123.906207 | 4.17 d. | $\beta + (23\%)$ | 3.16 | 1.5 | | | 2- | | 0.5290 ± 0.0001 | 1.4% |
| | | 124 | 53 | | | | E.C.(77%) | | 2.1 | | | | | 0.5385 ± 0.0001 | 0.4% |
| | | 124 | 53 | | | | | | | | | | | ann. rad. | |
| | | 124 | 53 | | | | | | | | | | | Te k x-ray | 31% |
| | | 124 | 53 | | | | | | | | | | | 0.6027 ± 0.0001 | 61% |
| | | 124 | 53 | | | | | | | | | | | 0.7228 ± 0.0001 | 10% |
| | | 124 | 53 | | | | | | | | | | | 1.3255 ± 0.0001 | 1.4% |
| | | 124 | 53 | | | | | | | | | | | 1.3760 ± 0.0001 | 1.7% |
| | | 124 | 53 | | | | | | | | | | | 1.5095 ± 0.0001 | 3% |
| | | 124 | 53 | | | | | | | | | | | 1.6910 ± 0.0001 | 10% |
| 0003 100 + | 125 | 125 | 53 | | 124.904620 | 59.9 d. | E.C. | 0.178 | | | 900 b. | 5/2 + | +3.0 | 2.0910 ± 0.0001 | 0.6% |
| 0004 100 | | 125 | 53 | | | | | | | | | | | 2.2833 ± 0.0001 | 0.7% |
| 0007 54 | | 125 | 53 | | | | | | | | | | | 2.7469 ± 0.0001 | 0.5% |
| | | 125 | 53 | | | | | | | | | | | Te k x-ray | 74% |
| | | 125 | 53 | | | | | | | | | | | 0.0355 ± 0.0001 | 6.7% |
| 0005 3% | | 125 | 53 | | | | | | | | | | | | |
| 0004 12% | | 125 | 53 | | | | | | | | | | | | |
| 0006 2% | | 125 | 53 | | | | | | | | | | | | |
| 0004 95% | | 125 | 53 | | | | | | | | | | | | |
| 0005 2% | | 125 | 53 | | | | | | | | | | | | |
| 0005 5% | | 125 | 53 | | | | | | | | | | | | |
| 0006 4% | | 125 | 53 | | | | | | | | | | | | |
| 0005 12% | | 125 | 53 | | | | | | | | | | | | |